

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants :	O'Donnell et al.)	Examiner:
)	To Be Assigned
Serial No. :	Continuation of 09/716,964)	
)	Art Unit:
Cnfrm. No. :	To Be Assigned)	To Be Assigned
)	
Filed :	Herewith)	
)	
For :	THERMOTOGA MARITIMA DELTA PRIME)	
	POLYMERASE SUBUNIT AND)	
	USE THEREOF)	
)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Patent Application

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

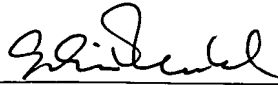
Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.98(d), the references identified on the attached PTO-1449 form are not provided, because these references either were previously cited by or submitted to the PTO in parent U.S. Patent Application Serial No. 09/716,964, filed November 21, 2000, of which this application claims priority under 35 USC § 120.

Respectfully submitted,

Date: September 26, 2003


Edwin V. Merkel
Registration No. 40,087

NIXON PEABODY LLP
Clinton Square, P.O. Box 31051
Rochester, New York 14603-1051
Telephone: (585) 263-1128
Facsimile: (585) 263-1600

EXPRESS MAIL CERTIFICATE

DOCKET NO.: 22221/1090 (RU 339)
APPLICANTS: Michael E. O'Donnell, Alexander Yuzhakov, Olga Yurieva,
David Jeruzalmi, Irina Bruck, and John Kuriyan
TITLE: THERMOTOGA MARITIMA DELTA PRIME
POLYMERASE SUBUNIT AND USE THEREOF

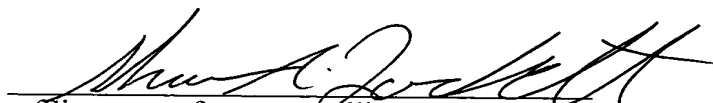
Certificate is attached to the **Information Disclosure Statement (1 page) and PTO-1449 (6 page) (in duplicate) with 65 references (not attached)** of the above-named application.

EXPRESS MAIL NUMBER: EL983811785US
DATE OF DEPOSIT: September 26, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Shawn A. Lockett

(Typed or printed name of person mailing
paper or fee)



(Signature of person mailing paper or fee)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 22221/1090	SERIAL NO. Continuation of 09/716,964
	APPLICANT O'Donnell, et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	1	5,192,674	03/09/1993	Oshima et al.			
	2	5,242,818	09/07/1993	Oshima et al.			
	3	5,322,785	06/21/1994	Comb et al.			
	4	5,352,778	10/04/1994	Comb et al.			
	5	5,374,553	12/20/1994	Gelfand et al.			
	6	5,413,926	05/09/1995	Oshima et al.			
	7	5,500,363	03/19/1996	Comb et al.			
	8	5,545,552	08/13/1996	Mathur			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
	9	WO 91/09950	07/11/1991	WIPO			
	10	WO 93/15115	08/05/1993	WIPO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		11	Rudinger, "Characteristics of the Amino Acids as Components of a Peptide Hormone Sequence," In: Peptide Hormones, Ed. J.A. Parsons. University Park Press, Baltimore, MD, pages 1-7 (1976)
		12	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Ilevinthal Paradox," In: The Protein Folding Problem and Tertiary Structure Prediction, Eds. Merz et al., Birkhauser et al., Boston, MA, pages 491-495 (1994)
		13	Thornton et al., <u>Current Opinion in Biotechnology</u> 6(4):367-369 (1995)
		14	Wallace, <u>FASEB Journal</u> 7:505-515 (1993)
		15	McHenry et al., <u>J. Mol. Biol.</u> 272:178-189 (1997)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	22221/1090	Continuation of 09/716,964
	APPLICANT	
	O'Donnell, et al.	
	FILING DATE	GROUP ART UNIT
	Herewith	To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	16	5,583,026	12/10/1996	O'Donnell			
	17	5,618,711	04/08/1997	Gelfand et al.			
	18	5,624,833	04/29/1997	Gelfand et al.			
	19	5,633,159	05/27/1997	Pearson et al.			
	20	5,736,373	04/07/1998	Hamilton			
	21	5,744,312	04/28/1998	Mamone et al.			
	22	5,789,224	08/04/1998	Gelfand et al.			
	23	5,830,714	11/03/1998	Swaminathan et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		24	Yurieva et al., <u>J. Biol. Chem.</u> 272(43):27131-27139 (1997)
		25	Bukhrashvili et al., <u>Biochimica et Biophysica Acta</u> 1008:102-107 (1989)
		26	Elie et al., <u>Biochimica et Biophysica Acta</u> 951:261-267 (1988)
		27	Pluthero, <u>Nucleic Acids Research</u> 21(20):4850-4851 (1993)
		28	Alonso et al., <u>Nucl. Acids Res.</u> 18:6771-6777 (1990)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 22221/1090	SERIAL NO. Continuation of 09/716,964
	APPLICANT O'Donnell, et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	29	5,834,285	11/10/1998	Comb et al.			
	30	6,066,483	05/23/2000	Riggs et al.			
	31	6,100,078	08/08/2000	Riggs et al.			
	32	6,238,905 B1	05/29/2001	McHenry et al.			
	33	6,395,526 B1	05/28/2002	Uemori et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		34	Blinkowa et al., <u>Nucleic Acids Research</u> 18:1725-1729 (1990)
		35	Carter et al., <u>J. Bacteriol</u> 175:3812-3822 (1993)
		36	Chen et al., <u>Proc. Natl. Acad. Sci USA</u> 5211-5215 (1992)
		37	Cullman et al., <u>Mol. Cell Biol.</u> 150:4661-4671 (1995)
		38	Dong et al., <u>J. Biol. Chem.</u> 11758-11766 (1993)
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 22221/1090	SERIAL NO. Continuation of 09/716,964
	APPLICANT O'Donnell, et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		39	Flower et al., <u>Proc. Natl. Acad. Sci. USA</u> 87:3713-3717 (1990)
		40	Guibus et al., <u>Cell</u> 87:297-306 (1996)
		41	Jack et al., <u>Cell</u> 55:447-458 (1988)
		42	Kelman et al., <u>Curr Opin Gen & Dev</u> 4:185-195 (1994)
		43	Kong et al., <u>Cell</u> 69:425-437 (1992)
		44	Kornberg et al., <u>DNA Replication</u> , 2 nd ed. New York: W.H. Freeman com, pp. 165-194 (1992)
		45	Krishna et al., <u>Cell</u> 79:1233-1243 (1994)
		46	Kuriyan et al., <u>J. Mol. Biol.</u> 234:915-925 (1993)
		47	Larsen et al., <u>J. Bact.</u> 176:6842-6851 (1994)
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 22221/1090	SERIAL NO. Continuation of 09/716,964
	APPLICANT O'Donnell, et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		48	Lee et al., <u>Proc. Natl. Acad. Sci. USA</u> 84:2713-2717 (1987)
		49	Maki et al., <u>J. Biol. Chem.</u> 263:6570-6578 (1988)
		50	McHenry et al., <u>J. Biol. Chem.</u> 257:1657-1663 (1982)
		52	O'Donnell et al., <u>Mol. Cell Biol.</u> 3:953-957 (1992)
		53	O'Donnell et al., <u>Nucl. Acids Res.</u> 21:1-3 (1993)
		54	Onrust et al., <u>J. Biol. Chem.</u> 270:13366-13377 (1995)
		55	Onrust et al., <u>J. Biol. Chem.</u> 266:21681-21686 (1991)
		56	Perrino et al., <u>Biochemistry</u> 29:5226-5231 (1990)
		57	Studwell-Vaughan, <u>J. Biol. Chem.</u> 266:19833-19841 (1991)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 22221/1090	SERIAL NO. Continuation of 09/716,964
	APPLICANT O'Donnell, et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		58	Stukenberg et al., <u>J. Biol. Chem.</u> 266:11328-11334 (1991)
		59	Tsuchihashi et al., <u>Proc. Natl. Acad. Sci. USA</u> 87:2516-2520 (1990)
		60	Tsuchihashi et al., <u>Gen. & Dev.</u> 6:511-519 (1992)
		61	Tsuchihashi et al., <u>J. Biol. Chem.</u> 264:17790-17795 (1989)
		62	Weiss et al., Cold Spring Harbor Symposia on Quantitative Biology, 52:687-693 (1987)
		63	Yin et al., <u>Nucl. Acids Res.</u> 14:6541-6549 (1986)
		64	Yuzhakov et al., <u>Cell</u> 86:877-886 (1996)
		65	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox, in The Program Folding Problem and Tertiary Structure Prediction, Merz et al. (ed.), Birkhauser, Boston, MA, pp. 433 and 492-495 (1994)
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			